

	Scope of work	Engineering
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Title: **Kendal Power Station SOW for the of the hydrastep probes**

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Date: 2025/03/20

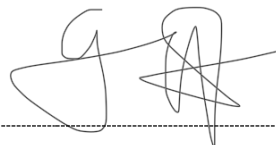
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CONTROLLED DISCLOSURE

1. Introduction

Kendal Boiler plant uses different instruments for protection and monitoring of the plant. Hydrastep probes are used for protection on the boiler drum to ensure that there is always enough water and steam in the vessel. Mill microphones and mill conversion cards are used for the protection and monitoring of the mill for continuous safe operation of the mill.

2. Supporting Clauses

2.1 Scope

2.1.1 Purpose

The purpose of this document is to provide the details of the Hydrastep probe and mill microphone spares that shall be supplied and delivered to Kendal power station site by a suitable Supplier/Contractor.

This is for the further purpose of placing a five year contract with the suitable Supplier/Contractor.

2.1.2 Applicability

This document shall apply throughout Kendal power station.

2.1.3 Effective date

This document is effective from the date of authorisation.

2.2 Normative/Informative References

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

2.2.1 Normative

[1] ISO 9001 Quality Management Systems

2.2.2 Informative

Not applicable

2.3 Definitions

Not applicable

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2.4 Abbreviations

Abbreviation	Explanation
APS	Affordable Power Solutions
C&I	Control and Instrumentation

2.5 Roles and Responsibilities

C&I Engineering: responsible for compiling the scope of work and sole-source justification documents.

Contract management: responsible for placing contracts with the suitable Supplier/Contractor.

Kendal Stores: responsible for ensuring that the spares levels are at minimum allowable level in the Store Warehouse.

2.6 Process for Monitoring

The contract and procurement management processes shall be used.

2.7 Related/Supporting Documents

Not applicable.

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3. Scope of work

The supply and delivery to Kendal power station site of the following Hydrastep probe and mill microphone spares as when required over a five-year period:

STOCK NUMBER	DESCRIPTION
135158	MICROPHONE: TYPE: PAGING PROJECTOR; SUPPL P/N: 61001011; MILLMINDER FANON COURIER BRAND ONLY, 15 WATTS CONTINUOUS DUTY, 6 1/2 INCH BELL X 8-INCH-LONG SPEAKER, SMOOTH RESPONSE, VERY HIGH CONVERSION EFFICIENCY, FULL RANGE SWIVEL MOUNT WITH POSITIVE LOCKING ACTION, 4 POUNDS WEIGHT, HDA-6 8 OHMS
243621	MODULE: TYPE: SONIC SENSOR; OUTPUT: 4-20 MA; MODEL NO: 10D514-5; REFERENCE NO: 51008971
0132723	AMPLIFIER: TYPE: COMPUTING; MODEL NO: 03831005; REFERENCE NO: 51013141/10D649
0178782	MODULE: ISOLATOR/RACK
0132719	MODULE: TYPE: VOLTAGE REGULATOR; OUTPUT: 5/15/24 VDC; MODEL NO: 02891152/M136BU0/10D515; REFERENCE NO: 51008991
0132721	MONITOR: TYPE: SIGNAL; RANGE: 0-4 KHZ; POWER SOURCE: 24 VDC; REFERENCE NO: 51008982
0132722	MODULE: AC (220V) ISOLATED OUTPUT MODULE. REFERENCE NO: 61009246
151897	PROBE: TYPE: CONDUCTIVITY; DIAMETER: 14 MM; LENGTH: 147 MM; RATING: 24 VDC 207 BAR; MATERIAL: STAINLESS STEEL; SUPPL P/N: 911-89-00; HYDRASTEP ELECTRODE, No CABLE LENGTH; CELL, BOILER DRUM WATER LEVEL

4. Acceptance

This document has been seen and accepted by:

Full Name and Surname	Designation
Nompilo Miya	C&I Engineer
Nokwanda Mkhonza	Senior Advisor Contracts management

5. Revisions

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Date	Rev.	Compiler	Remarks
March 2025	0.0	M. Matlaila	Initial development of the document to place contracts for spares.

6. Development Team

The following people were involved in the development of this document:

- Lehlogonolo Komane

7. Acknowledgements

N/A

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